

## EAST Search History

| Ref # | Hits  | Search Query                             | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|--|------------------|---------|------------------|
| L2    | 58    | marquis.in. and transmitt\$3             | US-PGPUB;<br>USPAT;<br>EPO; JPO                    | OR               | OFF     | 2007/11/20 09:35 |
| L3    | 10    | L2 and audio                             | US-PGPUB;<br>USPAT;<br>EPO; JPO                    | OR               | OFF     | 2007/11/20 09:46 |
| L4    | 1     | ("4972439").PN.                          | USPAT  | OR               | OFF     | 2007/11/20 09:36 |
| L5    | 394   | (381/323).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO          | OR               | OFF     | 2007/11/20 09:36 |
| L6    | 46    | L5 and audio                             | USPAT  | OR               | OFF     | 2007/11/20 09:37 |
| L7    | 0     | L4 and audio                             | USPAT  | OR               | OFF     | 2007/11/20 09:58 |
| L8    | 1     | L2 and audio and mod                     | US-PGPUB;<br>USPAT;<br>EPO; JPO                    | OR               | OFF     | 2007/11/20 09:46 |
| L9    | 0     | L4 and DTMF                              | USPAT  | OR               | OFF     | 2007/11/20 10:53 |
| L10   | 99075 | L4 and dual tone                         | USPAT  | OR               | OFF     | 2007/11/20 09:58 |
| L11   | 0     | L4 and dual near3 tone                   | USPAT  | OR               | OFF     | 2007/11/20 09:59 |
| L12   | 3918  | (455/69,522).CCLS.                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO          | OR               | OFF     | 2007/11/20 09:59 |
| L13   | 44    | L12 and (decod\$3 with audio)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR               | OFF     | 2007/11/20 10:02 |
| L14   | 0     | L12 and (decod\$3 with audio with pager) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR               | OFF     | 2007/11/20 10:02 |
| L15   | 29    | (decod\$3 with audio with pager)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR               | OFF     | 2007/11/20 10:27 |
| L16   | 458   | (pager with speaker)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR               | OFF     | 2007/11/20 10:38 |

## EAST Search History

|     |     |   |  |    |     |                  |
|-----|-----|---|--|----|-----|------------------|
| L17 | 52  | telephone with frequency with "100" with "20"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/20 10:39 |
| L18 | 0   | telephone near3 frequency near3 "100" near3 "20"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/20 10:39 |
| L19 | 1   | L12 and manually near3 (control\$3 adjust\$3 modify\$3) near3 frequency   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/20 10:44 |
| L20 | 90  | "455"/\$.ccls. and manually near3 (control\$3 adjust\$3 modify\$3) near3 frequency                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/20 10:49 |
| L21 | 2   | "455"/\$.ccls. and (manually near3 (control\$3 adjust\$3 modify\$3) near3 frequency) and pager                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/20 10:50 |
| L22 | 48  | "455"/\$.ccls. and (manually near3 (control\$3 adjust\$3 modify\$3) near3 frequency) and transmitter            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/20 10:50 |
| L23 | 1   | L4 and carrier  | USPAT  | OR | OFF | 2007/11/20 10:53 |
| S1  | 184 | (381/315,316).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO          | OR | OFF | 2004/11/09 09:31 |
| S2  | 236 | (381/323).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO          | OR | OFF | 2004/11/09 09:28 |
| S3  | 58  | (381/315,316,323).ccls. and antenna   | US-PGPUB;<br>USPAT;<br>EPO; JPO                    | OR | OFF | 2004/11/09 09:32 |
| S4  | 3   | ("4425481"   "5434924"   "5757932").PN.   | USPAT  | OR | OFF | 2004/11/09 09:37 |
| S5  | 9   | ("4947179"   "4947432"   "5144599"   "5578999"   "5721783"   "5798984"   "5824022"   "5907522"   "6411569").PN. | USPAT  | OR | OFF | 2004/11/09 09:42 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S6  | 673  | marquis.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/08 14:59 |
| S7  | 5    | marquis.in. and wireless   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/12 11:01 |
| S8  | 15   | "phonak".AS. and wireless  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/05 13:42 |
| S9  | 43   | "phonak".AS. and transmit\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/23 13:07 |
| S10 | 8    | ("4800636"   "5056204"  <br>"5455994"   "5487012"   "6167138"<br>  "6386707"   "6402782"  <br>"6560499"   "2001/0005420"  <br>"2002/0028417"   "2002/0092029"  <br>"2002/0138237").PN.   | USPAT                                     | OR | OFF | 2004/10/08 15:07 |
| S11 | 139  | "phonak".AS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:23 |
| S12 | 36   | marquis.in. and transmitt\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2007/11/20 09:35 |
| S13 | 112  | (381/79).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 14:23 |
| S14 | 0    | (wireless adj2 hear\$2) same ear   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/08 15:37 |
| S15 | 5    | "5970390".URPN.  | USPAT                                     | OR | OFF | 2004/10/08 15:23 |
| S16 | 18   | ("4493099"   "4712250"  <br>"5036543"   "5293633"   "5319716"<br>  "5408686"   "5628056"  <br>"5768345"   "5842119"   "5905947"<br>  "5911118"   "5946604"  <br>"5970390"   "5991622"   "6163711"<br>  "6423892"   "6556813"  <br>"6608399").PN. | USPAT                                     | OR | OFF | 2005/10/21 11:18 |
| S17 | 15   | gerber.in. and wireless  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/08 15:28 |
| S18 | 9705 | wireless adj2 transmit\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/23 11:52 |

## EAST Search History

|     |      |   |                                 |    |     |                  |
|-----|------|---|---------------------------------|----|-----|------------------|
| S19 | 62   | (wireless adj2 transmi\$7) same antenna same decoder  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/10/23 12:52 |
| S20 | 0    | greninger.in. and wireless  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/10/08 15:44 |
| S21 | 56   | greninger.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/10/08 15:51 |
| S22 | 4    | ((("20020090098") or ("20040069560") or ("20030094355") or ("20030091197")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2004/10/08 15:53 |
| S23 | 10   | ((("20040175010") or ("20040175005") or ("20040175008") or ("20040097785") or ("20040159535") or ("20030133583") or ("20030231773") or ("20040066946") or ("20040047480") or ("20040027296")).PN. | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2004/10/08 15:58 |
| S24 | 5306 | wireless adj2 transmitter   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/10/23 11:52 |
| S25 | 18   | (wireless adj2 transmitter) same antenna same decoder   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 11:47 |
| S26 | 63   | (wireless adj2 transmi\$8) same antenna same decoder  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/10/23 12:39 |
| S27 | 7    | (381/79).cccls. and decoder   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2007/03/04 15:32 |
| S28 | 2015 | (transmi\$7) same antenna same decoder same frequency   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/10/23 12:53 |
| S29 | 936  | (transmitter) same antenna same decoder same frequency  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/10/23 12:53 |
| S30 | 10   | "5734976".URPN.   | USPAT                           | OR | OFF | 2004/10/23 13:05 |
| S31 | 46   | "phonak".AS. and transmis\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/10/23 13:09 |
| S32 | 50   | "phonak".AS. and control  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 19:00 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S33 | 10   | "phonak".AS. and antenna                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/23 13:12 |
| S34 | 4026 | ("455"/\$).ccls. and transmi\$7 same decoder                | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/23 13:12 |
| S35 | 1466 | ("455"/\$).ccls. and transmi\$7 same decoder same frequency | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/07 16:29 |
| S37 | 888  | wireless adj3 microphone                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/23 13:13 |
| S38 | 10   | (wireless adj2 microphone) same decoder                     | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/12/10 15:12 |
| S40 | 546  | (381/92,122).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2004/10/23 13:16 |
| S41 | 50   | (381/92,122).ccls. and wireless                             | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/21 14:24 |
| S42 | 5    | (381/92,122).ccls. and wireless and decoder                 | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/11/08 18:16 |
| S43 | 74   | (wireless adj2 microphone) and decoder                      | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/23 13:19 |
| S44 | 3    | ("4053717"   "5138651"   "5664015").PN.                     | USPAT                                     | OR | OFF | 2004/10/23 13:20 |
| S45 | 739  | wireless adj2 microphone                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/23 13:23 |
| S46 | 154  | (wireless adj2 microphone) same frequency                   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/11/23 19:37 |
| S47 | 135  | (381/FOR.147).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2004/10/23 13:26 |
| S48 | 24   | (wireless adj2 microphone) same decod\$4                    | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/10/23 13:28 |
| S49 | 25   | (455/569.1,570).ccls. and wireless adj3 microphone          | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 10:48 |

## EAST Search History

|     |     |   |                                 |    |     |                  |
|-----|-----|---|---------------------------------|----|-----|------------------|
| S50 | 12  | ("4829565"   "5036532"   "5170499"   "5367556"   "5448620"   "5450494"   "5615256"   "5642402"   "5646589"   "5790671"   "5844983"   "5844992").PN. | USPAT                           | OR | OFF | 2004/10/26 13:17 |
| S51 | 3   | (381/92,122).cccls. and antenna and decoder   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/08 18:16 |
| S52 | 10  | (wireless adj2 microphone) same decoder   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/08 18:24 |
| S53 | 19  | (wireless adj2 transmitter) same decoder same antenna   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/14 17:27 |
| S54 | 4   | (wireless near3 microphone) same decoder same antenna   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/08 18:26 |
| S55 | 139 | wireless same decoder same antenna same control   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/08 18:27 |
| S56 | 54  | (wireless adj2 transmitter) same (frequency adj2 band)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/08 18:35 |
| S57 | 737 | (wireless) same (signal adj2 generator)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/08 18:35 |
| S58 | 59  | (wireless) same (signal adj2 generator) same frequency same modulation  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/08 18:37 |
| S59 | 87  | (wireless) same (control adj2 signal) same (signal adj2 generator)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/08 18:38 |
| S60 | 0   | (wireless adj2 microphone) and deocder and transmitter  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 19:57 |
| S61 | 56  | (wireless adj2 microphone) and decoder and transmitter  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 19:46 |
| S62 | 550 | (381/92,122).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 19:54 |
| S63 | 4   | (wireless adj2 microphone) same (frequency adj2 selection)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 19:49 |
| S64 | 4   | (wireless adj2 microphone) and encod\$3 same (frequency adj2 selection)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:13 |

## EAST Search History

|     |     |  |                                 |    |     |                  |
|-----|-----|--|---------------------------------|----|-----|------------------|
| S65 | 2   | ("5051799"   "6560469").PN.  | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2004/11/23 19:50 |
| S66 | 106 | (455/125).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/15 15:19 |
| S67 | 3   | (wireless) and (audio adj signal)<br>near3 program\$4 near2 frequency            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 19:58 |
| S68 | 2   | (audio adj signal) near3 program\$4<br>near2 frequency adj2 band                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:26 |
| S69 | 13  | (wireless adj2 transmis\$4) and<br>encod\$3 same (frequency adj2<br>selection)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:14 |
| S70 | 7   | (wireless adj2 transmis\$4) same<br>(frequency adj2 selection)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:15 |
| S71 | 170 | wireless same (frequency adj2<br>selection)                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:22 |
| S72 | 0   | (frequency adj2 selection) near2<br>based near2 (audio adj2 signal)              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:23 |
| S73 | 4   | (frequency adj2 selection) near2<br>(audio adj2 signal)                          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:25 |
| S74 | 28  | (audio adj signal) near3 program\$4<br>near2 frequency                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:34 |
| S75 | 364 | control adj2 (input or signal) same<br>(frequency adj2 selection)                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:42 |
| S76 | 65  | control adj2 (input or signal) near3<br>(frequency adj2 selection)               | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:35 |
| S77 | 20  | control adj2 (input or signal) same<br>(frequency adj2 selection) same<br>audio  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/11/23 20:42 |
| S78 | 2   | marquis.in. and wireless and<br>antenna and decoder                              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/12/10 15:17 |
| S79 | 404 | ("455"/\$).ccls. and transmi\$7 same<br>decoder same frequency and<br>microphone | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/12/10 15:19 |

## EAST Search History

|     |     |   |                                 |    |     |                  |
|-----|-----|---|---------------------------------|----|-----|------------------|
| S80 | 296 | wireless same (hearing adj2 aid)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/12/10 15:30 |
| S81 | 42  | wireless same (hearing adj2 aid)<br>same antenna  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/12/10 15:30 |
| S82 | 100 | (455/93).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 13:42 |
| S83 | 304 | (455/112,113).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 13:54 |
| S84 | 587 | (455/112,113,118).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 10:19 |
| S85 | 2   | (455/112,113,118).ccls. and<br>(frequency adj2 selection) same<br>(decoder or decoding)             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 11:40 |
| S86 | 9   | ("455"/\$).ccls. and (transmitter)<br>same (frequency adj2 selection)<br>same (decoder or decoding) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 13:58 |
| S87 | 19  | (transmitter) same (frequency adj2<br>selection) same (decoder or<br>decoding)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 13:59 |
| S88 | 0   | (frequency adj2 selection) same<br>(decoder or decoding) same<br>country                            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 14:00 |
| S89 | 0   | (frequency adj2 selection) same<br>(decoder or decoding) same<br>countries                          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 14:00 |
| S90 | 9   | (frequency adj2 selection) same<br>(decoder or decoding) and<br>countries                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 14:01 |
| S91 | 0   | (frequency adj2 selection) same<br>countries same transmitter                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 14:02 |
| S92 | 9   | (frequency adj2 select\$3) same<br>countries same transmitter                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/05 14:02 |
| S93 | 0   | ("(frequencyadj2locking)samewirele<br>ssamecountries").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 10:19 |
| S94 | 0   | (frequency adj2 locking) same<br>wireless same countries  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 10:19 |



## EAST Search History

|          |     |  |   |    |     |                  |
|----------|-----|--|---|----|-----|------------------|
| S95      | 20  | (frequency adj2 locking) same wireless   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 10:50 |
| S96      | 0   | (frequency adj2 locking) same decoder same antenna                             | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 10:24 |
| S97      | 12  | ("4918736").URPN.  | USPAT                                     | OR | OFF | 2005/01/06 10:26 |
| S98      | 1   | (frequency adj2 bands) same (ERP) same wireless                                | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 10:51 |
| S99      | 14  | (frequency adj2 bands) same (ERP)  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 11:09 |
| S10<br>0 | 1   | (455/112,113,118).ccls. and (decoder) and (automatic adj2 tuning)              | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 11:24 |
| S10<br>1 | 2   | (455/112,113,118).ccls. and (automatic adj2 tuning)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 11:24 |
| S10<br>2 | 36  | (wireless adj2 transmitter) same (automatic adj2 tuning)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/14 17:17 |
| S10<br>3 | 41  | (automatic adj2 frequency adj2 lock\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 11:35 |
| S10<br>4 | 31  | decoder with (signal adj2 generator) with antenna                              | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 11:35 |
| S10<br>5 | 31  | (455/112,113,118).ccls. and (decoder)  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/12 16:28 |
| S10<br>6 | 120 | (wireless adj2 transmitter) same decoder                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 11:55 |
| S10<br>7 | 33  | (wireless adj2 transmitter) same decoder same frequency                        | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 11:57 |
| S10<br>8 | 12  | (wireless adj2 transmitter) same (frequency adj2 select\$3)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:24 |
| S10<br>9 | 0   | ("(controladj2signal)with(frequency adj2band)with(carrieradj2frequency)").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/01/06 12:10 |
| S11<br>0 | 52  | (control adj2 signal) with (frequency adj2 band) with (carrier adj2 frequency) | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/01/06 14:51 |

## EAST Search History

|          |      |  |                                 |    |     |                  |
|----------|------|--|---------------------------------|----|-----|------------------|
| S11<br>1 | 22   | (signal adj2 generat\$3) with<br>(control adj2 signal) with<br>(frequency adj2 selection)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 12:20 |
| S11<br>2 | 1    | ("6671498").PN.  | USPAT                           | OR | OFF | 2005/01/06 14:07 |
| S11<br>3 | 1    | ("6671498").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 14:07 |
| S11<br>4 | 2    | ("5051799"   "6560469").PN.  | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/01/06 14:07 |
| S11<br>5 | 246  | (455/464).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 14:56 |
| S11<br>6 | 59   | (455/463,464).ccls. and (carrier<br>adj2 frequency)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/06 14:56 |
| S11<br>7 | 1757 | ("455"/\$).ccls. and transmitter<br>same decoder   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 16:30 |
| S11<br>8 | 47   | ("455"/\$).ccls. and transmitter<br>same decoder same (signal adj2<br>generator)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 16:30 |
| S11<br>9 | 6    | ("5970390").URPN.  | USPAT                           | OR | OFF | 2005/01/07 16:43 |
| S12<br>0 | 18   | ("4493099"   "4712250"  <br>"5036543"   "5293633"   "5319716"<br>  "5408686"   "5628056"  <br>"5768345"   "5842119"   "5905947"<br>  "5911118"   "5946604"  <br>"5970390"   "5991622"   "6163711"<br>  "6423892"   "6556813"  <br>"6608399").PN. | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/01/07 17:04 |
| S12<br>1 | 0    | (selection adj2 frequency adj2 band<br>adj2 control\$3 adj2 audio adj2<br>signal)  | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/01/07 17:05 |
| S12<br>2 | 1    | (reprogram\$3 adj3 transmitter)<br>same (local\$2 adj2 frequency adj2<br>band)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:12 |
| S12<br>3 | 1    | (reprogram\$3 adj3 transmitter)<br>same (local\$2 adj2 frequency)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:13 |
| S12<br>4 | 8    | (reprogram\$3 adj3 transmitter)<br>same (frequency)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:12 |
| S12<br>5 | 1    | (reprogram\$3 adj2 wireless adj2<br>transmitter)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:13 |

## EAST Search History

|          |     |   |                                 |    |     |                  |
|----------|-----|---|---------------------------------|----|-----|------------------|
| S12<br>6 | 0   | (transmitter) same (program\$4<br>adj2 local\$2 adj2 frequency)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:14 |
| S12<br>7 | 267 | (transmitter) same (program\$4<br>adj2 frequency)                               | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:14 |
| S12<br>8 | 40  | (wireless near2 transmitter) same<br>(program\$4 adj2 frequency)                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:18 |
| S12<br>9 | 105 | (wireless near2 hearing)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:19 |
| S13<br>0 | 68  | (wireless adj2 hearing)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:59 |
| S13<br>1 | 1   | (audio adj2 signal adj2 carrier)<br>near2 compris\$3 adj2 encoded adj2<br>audio | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 17:59 |
| S13<br>2 | 1   | (audio adj2 carrier) same (encoded<br>adj2 audio adj2 files)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 18:00 |
| S13<br>3 | 47  | (encoded adj2 audio adj2 files)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 18:01 |
| S13<br>4 | 1   | carrier adj2 compris\$3 with<br>(encoded adj2 audio adj2 files)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 18:01 |
| S13<br>5 | 1   | (carrier adj2 compris\$3) with<br>(encoded adj2 audio adj2 files)               | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 18:01 |
| S13<br>6 | 2   | carrier same (encoded adj2 audio<br>adj2 files)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/01/07 18:01 |
| S13<br>7 | 14  | ("4918736").URPN.   | USPAT                           | OR | OFF | 2005/10/14 16:44 |
| S13<br>8 | 0   | (wireless adj2 transmitter) same<br>(automatic adj2 tuning) same<br>decod\$3    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/14 17:18 |
| S13<br>9 | 17  | (wireless adj2 transmitter) same<br>(control) same frequency same<br>decod\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/14 17:18 |
| S14<br>0 | 4   | ("5001757"   "5119503"  <br>"5299264"   "5581617").PN.                          | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/10/14 17:20 |
| S14<br>1 | 0   | ("6337913").URPN.   | USPAT                           | OR | OFF | 2005/10/14 17:20 |

## EAST Search History

|          |     |  |   |    |     |                  |
|----------|-----|--|---|----|-----|------------------|
| S14<br>2 | 3   | (wireless adj2 transmitter) same<br>((set\$4 or select\$3) with frequency<br>adj2 band)                  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/14 17:28 |
| S14<br>4 | 52  | (wireless adj2 transmitter) and<br>((set\$4 or select\$3) with frequency<br>adj2 band) and decod\$3      | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/14 17:28 |
| S14<br>5 | 104 | (wireless adj2 transmitter) and<br>((set\$4 or select\$3) with frequency<br>adj2 band)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:18 |
| S14<br>6 | 66  | (wireless adj2 transmitter) same<br>(frequency adj2 (select\$3 or set\$4))                               | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:25 |
| S14<br>7 | 4   | (wireless adj2 transmitter) same<br>(frequency adj2 (select\$3 or set\$4))<br>same modulat\$3            | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:25 |
| S14<br>8 | 124 | (wireless adj2 transmitter) and<br>(frequency adj2 (select\$3 or set\$4))<br>same modulat\$3             | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:43 |
| S14<br>9 | 1   | (wireless adj2 transmitter) and<br>(frequency with band with<br>reallocat\$3)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:43 |
| S15<br>0 | 3   | (wireless adj2 transmi\$6) and<br>(frequency with band with<br>reallocat\$3)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:44 |
| S15<br>1 | 319 | (wireless adj2 transmi\$6) and<br>(frequency with band with<br>(reallocat\$3 or allot\$4 or assign\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:45 |
| S15<br>2 | 59  | (wireless adj2 transmi\$6) same<br>(frequency with band with<br>(reallocat\$3 or allot\$4 or assign\$4)) | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:46 |
| S15<br>3 | 354 | (wireless) same (frequency with<br>band with (reallocat\$3 or allot\$4 or<br>assign\$4))                 | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:46 |
| S15<br>4 | 44  | (wireless) same (frequency with<br>band with (reallocat\$3 or allot\$4 or<br>assign\$4)) same modulat\$3 | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:52 |
| S15<br>5 | 125 | (wireless) same (carrier adj2<br>frequency) same modulat\$3 same<br>(signal adj2 generat\$3)             | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 14:52 |
| S15<br>6 | 542 | (455/569.1,570).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/12 16:27 |
| S15<br>7 | 1   | ("5970390").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2005/10/15 15:19 |

## EAST Search History

|          |      |   |                                 |    |     |                  |
|----------|------|---|---------------------------------|----|-----|------------------|
| S15<br>8 | 8    | ("5970390").URPN.   | USPAT                           | OR | OFF | 2005/10/15 15:19 |
| S15<br>9 | 10   | ("4712250"   "4864550"  <br>"5093924"   "5093928"   "5319716"<br>  "5628056"   "5768345"  <br>"5774805"   "5826198"  <br>"5842119").PN. | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/10/15 15:21 |
| S16<br>0 | 20   | ("5319716").URPN.   | USPAT                           | OR | OFF | 2005/10/15 15:24 |
| S16<br>1 | 1    | ("5319716").PN.   | USPAT                           | OR | OFF | 2006/08/04 15:16 |
| S16<br>2 | 20   | ("5319716").URPN.   | USPAT                           | OR | OFF | 2005/10/21 11:19 |
| S16<br>3 | 5    | S162 and microphone   | USPAT                           | OR | OFF | 2005/10/21 11:24 |
| S16<br>4 | 0    | S162 and (dual-tone)  | USPAT                           | OR | OFF | 2005/10/21 11:24 |
| S16<br>5 | 0    | (wireless adj2 transmitter) same<br>(dual-tone)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:29 |
| S16<br>6 | 0    | (wireless adj2 transmitter) same<br>(dual adj 2tone)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:29 |
| S16<br>7 | 454  | wireless same (dual near2 tone<br>near2 frequency)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:37 |
| S16<br>8 | 454  | wireless same (dual adj2 tone adj3<br>frequency)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:02 |
| S16<br>9 | 25   | wireless same (dual adj2 tone adj3<br>frequency) same encod\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:34 |
| S17<br>0 | 0    | wireless same ("100" with "20" with<br>HZ) same audio   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:35 |
| S17<br>1 | 4    | wireless same ("100" with "20" with<br>HZ)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:47 |
| S17<br>2 | 206  | wireless and ("100" with "20" with<br>HZ)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:36 |
| S17<br>3 | 17   | wireless and ("100" with "20" with<br>HZ) same audio  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:36 |
| S17<br>4 | 1121 | wireless same (DTMF)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:38 |

## EAST Search History

|          |     |   |                                 |    |     |                  |
|----------|-----|---|---------------------------------|----|-----|------------------|
| S17<br>5 | 0   | wireless same (DTMF) same ("100" with "20" with HZ)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:38 |
| S17<br>6 | 97  | wireless same (DTMF) same modulats3   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 11:44 |
| S17<br>7 | 9   | wireless same (DTMF with encod\$3 with audio)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 12:57 |
| S17<br>8 | 1   | (encod\$3) with audio with ("100" with "20" with HZ)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:43 |
| S17<br>9 | 147 | (DTMF with encod\$3 with audio)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:35 |
| S18<br>0 | 52  | (DTMF with encod\$3 with audio) and wireless  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 12:51 |
| S18<br>1 | 5   | (DTMF with encod\$3 with audio) and wireless and vehicle  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 12:51 |
| S18<br>2 | 2   | (wireless adj2 adapt\$2) same (DTMF)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 13:25 |
| S18<br>3 | 2   | (wireless adj2 adapt\$2) and (DTMF) same FM   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 13:58 |
| S18<br>4 | 11  | (wireless adj2 adapt\$2) same (microphone with input)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 13:59 |
| S18<br>5 | 42  | (wireless adj2 adapt\$2) same (microphone)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:00 |
| S18<br>6 | 353 | (wireless adj2 transmitter) same (microphone)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:08 |
| S18<br>7 | 17  | ("3868743"   "4262383"   "4789904"   "5027200"   "5111289"   "5264962"   "5289321"   "5467264"   "5550677"   "5574443"   "5596228"   "5642238"   "5670935"   "5677667"   "5729016"   "5760828"   "5793300").PN. | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/10/21 14:03 |
| S18<br>8 | 9   | ("6259475").URPN.   | USPAT                           | OR | OFF | 2005/10/21 14:04 |
| S18<br>9 | 12  | (wireless adj2 transmitter) same (microphone) same vehicle  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:08 |

## EAST Search History

|          |     |   |                                 |    |     |                  |
|----------|-----|---|---------------------------------|----|-----|------------------|
| S19<br>0 | 68  | (381/92,122).cccls. and wireless and microphone   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:24 |
| S19<br>1 | 15  | (DTMF with encod\$3 with audio) and vehicle   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:36 |
| S19<br>2 | 37  | audio with ("100" with Hz with "20" with kHz)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:07 |
| S19<br>3 | 636 | (frequency with band with more with carrier with frequency)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:48 |
| S19<br>4 | 737 | (frequency with band with plurality with carrier with frequency)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:48 |
| S19<br>5 | 249 | (frequency with band with plurality with carrier with frequency) and wireless           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:48 |
| S19<br>6 | 99  | (frequency with band with plurality with carrier with frequency) and wireless and audio | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:50 |
| S19<br>7 | 107 | (frequency with band with multi-carrier with frequency) and wireless                    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:50 |
| S19<br>8 | 10  | (multi-carrier adj3 frequency adj2 band) and wireless                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:51 |
| S19<br>9 | 13  | (multi-carrier adj2 frequency adj2 band)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/21 14:51 |
| S20<br>0 | 648 | ("100" with Hz with "20" with kHz)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:07 |
| S20<br>1 | 71  | ("100" with Hz with "20" with kHz) and wireless   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:10 |
| S20<br>2 | 59  | ("100" with Hz with "20" with kHz) same audio   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:32 |
| S20<br>3 | 21  | receiv\$3 with ("100" with Hz with "20" with kHz)                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:14 |
| S20<br>4 | 3   | encod\$3 with ("100" with Hz with "20" with kHz)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:16 |

## EAST Search History

|          |       |   |                                 |    |     |                  |
|----------|-------|---|---------------------------------|----|-----|------------------|
| S20<br>5 | 2     | CD with ("100" with Hz with "20" with kHz)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:16 |
| S20<br>6 | 1     | DTMF same ("100" with Hz with "20" with kHz)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:29 |
| S20<br>7 | 2     | DTMF and ("100" with Hz with "20" with kHz)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:17 |
| S20<br>8 | 103   | high with ("100" with Hz with "20" with kHz)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:29 |
| S20<br>9 | 82    | high with frequency with ("100" with Hz with "20" with kHz)             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:31 |
| S21<br>0 | 42    | transmi\$8 with ("100" with Hz with "20" with kHz)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:34 |
| S21<br>1 | 65    | control\$4 with ("100" with Hz with "20" with kHz)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 12:34 |
| S21<br>2 | 1121  | wireless same (DTMF)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:07 |
| S21<br>3 | 185   | wireless same (DTMF) same audio   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:03 |
| S21<br>4 | 6     | wireless same (DTMF) same audio same vehicle                            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:03 |
| S21<br>5 | 51    | (wireless adj2 (adapter or transmitter)) same (DTMF)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:07 |
| S21<br>6 | 22    | ("100" with Hz with "20" with kHz) and audio and wireless               | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:45 |
| S21<br>7 | 25232 | (signal with control\$4 with power with level)                          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:45 |
| S21<br>8 | 27    | (signal with control\$4 with power with level) same wireless same audio | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:46 |
| S21<br>9 | 16    | (signal adj3 control\$4 adj2 power adj3 level) same wireless            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/10/22 13:46 |



## EAST Search History

|          |      |  |   |    |     |                  |
|----------|------|--|---|----|-----|------------------|
| S22<br>0 | 10   | marquis.in. and wireless   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:01 |
| S22<br>1 | 5    | S220 and (phone telephone<br>telephony)  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:01 |
| S22<br>2 | 12   | marquis.in. and (phone telephone<br>telephony)   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:04 |
| S22<br>3 | 73   | "455"/\$.ccls. and (wireless near2<br>transmitter) and DTMF and audio  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:12 |
| S22<br>4 | 2    | "455"/\$.ccls. and (wireless near2<br>transmitter) same DTMF same<br>audio   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:50 |
| S22<br>5 | 69   | "455"/\$.ccls. and (wireless near2<br>transmitter) and DTMF and audio<br>and (frequency)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:20 |
| S22<br>6 | 12   | "455"/\$.ccls. and (wireless near2<br>microphone) and DTMF and audio<br>and (frequency)                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:21 |
| S22<br>7 | 0    | "phonak".AS. and (DTMF) and<br>frequency and wireless  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:23 |
| S22<br>8 | 0    | "phonak".AS. and (DTMF) and<br>frequency   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:23 |
| S22<br>9 | 13   | "phonak".AS. and (phone telephone<br>telephony) and frequency and<br>wireless  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:24 |
| S23<br>0 | 9    | ("3979679"   "4207590"  <br>"4332032"   "4761829"   "4873527"<br>  "5020147"   "5402494"  <br>"5498885"   "5519762").PN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR | OFF | 2006/07/11 14:30 |
| S23<br>1 | 1054 | (381/312).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/11 14:30 |
| S23<br>2 | 218  | (381/320).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/11 14:30 |
| S23<br>3 | 4    | ("4548082"   "5189704"  <br>"5321758"   "5861779").PN.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR | OFF | 2006/07/11 14:33 |
| S23<br>4 | 105  | (wireless near2 transmitter) same<br>(frequency near3 select\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/11 14:50 |

## EAST Search History

|          |     |   |                                 |    |     |                  |
|----------|-----|---|---------------------------------|----|-----|------------------|
| S23<br>5 | 2   | (wireless near2 transmitter) same (frequency near3 select\$4) and DTMF  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 14:51 |
| S23<br>6 | 2   | ((wireless near2 transmitter) same (frequency near3 select\$4)) and DTMF  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 14:51 |
| S23<br>7 | 46  | ((wireless near2 transmitter) same (frequency near3 select\$4)) and audio   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 14:58 |
| S23<br>8 | 0   | ((wireless near2 transmitter) same (frequency near3 select\$4)) and (hearing near3 aid)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 14:59 |
| S23<br>9 | 14  | ((wireless near2 transmitter) and (frequency near3 select\$4)) and (hearing near3 aid)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 15:01 |
| S24<br>0 | 40  | ((wireless with transmitter) and (frequency near3 select\$4)) and (hearing near3 aid)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 18:53 |
| S24<br>1 | 10  | ((("4193120") or ("4774515") or ("4847763") or ("6115478") or ("6226533") or ("6366791") or ("6423892") or ("6466801") or ("4049930") or ("6320969")),PN: | USPAT                           | OR | OFF | 2006/07/11 18:33 |
| S24<br>2 | 2   | dress.in. and (hearing near2 aid) and frequency   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 19:06 |
| S24<br>3 | 23  | "phonak".AS. and (control near2 signal)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 19:04 |
| S24<br>4 | 20  | "phonak".AS. and (frequency near3 select\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 19:04 |
| S24<br>5 | 150 | (hearing near2 aid) and (frequency near3 select\$3) and wireless  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 19:07 |
| S24<br>6 | 67  | ((hearing near2 aid) same wireless) and (frequency near3 select\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/11 19:07 |
| S24<br>7 | 5   | marquis.in. and wireless and power and frequency and control  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:09 |
| S24<br>8 | 192 | ((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency)) and wireless   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 15:22 |
| S24<br>9 | 161 | ((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency)) and wireless and antenna   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:13 |

## EAST Search History

|          |      |   |                                 |    |     |                  |
|----------|------|---|---------------------------------|----|-----|------------------|
| S25<br>0 | 18   | ((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3)) and wireless and antenna  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:14 |
| S25<br>1 | 7    | control\$4 same (((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3))  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:15 |
| S25<br>2 | 8    | (control\$4 near2 signal) same (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3))  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:19 |
| S25<br>3 | 206  | (control\$4 near2 signal) and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3))   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:19 |
| S25<br>4 | 180  | (control\$4 near2 signal) and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3)) and antenna                               | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:26 |
| S25<br>5 | 138  | ((control\$4 near2 signal) same (decod\$3 demodulat\$3 process\$3)) and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3)) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:35 |
| S25<br>6 | 12   | (transmitter) same (((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3))   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:37 |
| S25<br>7 | 33   | ((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3))   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:45 |
| S25<br>8 | 1961 | (control\$4 near2 signal) same ((power) ERP) same (frequency with select\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:42 |
| S25<br>9 | 13   | ((control\$4 near2 signal) same ((power) ERP) same (frequency with select\$3)) and wireless and country   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:42 |
| S26<br>0 | 1    | ((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3)) and DTMF  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 11:45 |
| S26<br>1 | 29   | ((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3)) and DTMF   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:12 |
| S26<br>2 | 80   | microphone and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3))  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:12 |

## EAST Search History

|          |      |  |                                 |    |     |                  |
|----------|------|--|---------------------------------|----|-----|------------------|
| S26<br>3 | 8    | microphone and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3)) and hearing | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:14 |
| S26<br>4 | 23   | microphone and ((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency) and hearing                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:15 |
| S26<br>5 | 22   | microphone and (ERP) and (frequency) and hearing   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:15 |
| S26<br>6 | 4261 | microphone and (power) and (frequency) and hearing   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:15 |
| S26<br>7 | 888  | microphone and (power) and (frequency near3 select\$4) and hearing   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:55 |
| S26<br>8 | 12   | comtek.AS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:58 |
| S26<br>9 | 611  | wireless with microphone with transmitter  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 14:58 |
| S27<br>0 | 336  | (wireless with microphone with transmitter) and frequency and power  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/05 17:31 |
| S27<br>1 | 115  | (wireless with microphone with transmitter) and frequency and power and (hearing listening)                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 15:08 |
| S27<br>2 | 33   | (assist\$3 near2 listening near3 (system device apparatus)) and frequency and power                          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 15:13 |
| S27<br>3 | 35   | (assist\$3 near2 listening) and frequency and power and antenna  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 15:14 |
| S27<br>4 | 0    | JP-404238427-\$.did.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 15:23 |
| S27<br>5 | 1    | JP-04238427-\$.did.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 15:52 |
| S27<br>6 | 0    | phonak.ap.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 15:54 |
| S27<br>7 | 0    | phonak.app.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/07/12 15:54 |

## EAST Search History

|          |      |  |   |    |     |                  |
|----------|------|--|---|----|-----|------------------|
| S27<br>8 | 312  | phonak   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/12 15:54 |
| S27<br>9 | 54   | phonak and wireless  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/12 15:54 |
| S28<br>0 | 213  | (455/112,113,118,569.1,114.1,123,125,127.1).ccls. and (effect\$4 neare radiat\$4 near2 power) and frequency and microphone and power | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/07/12 16:30 |
| S28<br>1 | 1691 | (455/69).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2007/03/04 15:36 |
| S28<br>2 | 2335 | (455/522).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 11:39 |
| S28<br>3 | 3095 | (455/69,522).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2007/03/04 15:41 |
| S28<br>4 | 736  | S283 and (microphone internet (audio near2 player))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 11:45 |
| S28<br>5 | 726  | S283 and (microphone internet (audio near2 player)) and (power frequency)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 11:46 |
| S28<br>6 | 281  | S283 and ((decod\$3 demodulat\$3 process\$3) same (microphone internet (audio near2 player))) and (power frequency)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/04 19:35 |
| S28<br>7 | 2    | ("6285886"   "6377813").PN.  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | OFF | 2006/07/13 12:18 |
| S28<br>8 | 367  | S283 and (microphone internet (audio near2 player)) and ((power frequency) with select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 12:21 |
| S28<br>9 | 25   | S283 and (antenna same transmitter same (decod\$3 demodulat\$3)) same ((power frequency) with select\$3)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 12:23 |

## EAST Search History

|          |     |  |   |    |     |                  |
|----------|-----|--|---|----|-----|------------------|
| S29<br>0 | 1   | S283 and (transmitter with (decod\$3 demodulat\$3) with (signal near2 generat\$3)) same ((power frequency) with select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 12:25 |
| S29<br>1 | 6   | S283 and transmitter same (decod\$3 demodulat\$3) same (signal near2 generat\$3) same ((power frequency) with select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 12:25 |
| S29<br>2 | 6   | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and transmitter same (decod\$3 demodulat\$3) same (signal near2 generat\$3) same ((power frequency) with select\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 12:26 |
| S29<br>3 | 35  | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (decod\$3 demodulat\$3) same (signal near2 generat\$3) same ((power frequency) with select\$3)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 15:06 |
| S29<br>4 | 62  | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (signal near2 generat\$3) same (control near2 signal) same ((power frequency) with select\$3)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 12:34 |
| S29<br>5 | 118 | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (power near2 select\$3) and (frequency near2 select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 12:35 |
| S29<br>6 | 389 | (455/3.06).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 13:23 |
| S29<br>7 | 273 | S296 and (microphone (audio near2 player) internet)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 13:43 |
| S29<br>8 | 79  | (381/14).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 13:43 |
| S29<br>9 | 0   | ("wireless\$3 same (hearing adj2 (aid device apparatus)))".PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 14:23 |
| S30<br>0 | 508 | wireless same (hearing adj2 (aid device apparatus))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 14:24 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S30<br>1 | 0    | wireless same (hearing adj2 (aid device apparatus)) and (conrol with transmitter)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 14:24 |
| S30<br>2 | 67   | wireless same (hearing adj2 (aid device apparatus)) and (control with transmitter)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 14:25 |
| S30<br>3 | 86   | wireless same (hearing adj2 (aid device apparatus)) and (control\$4 with transmitter)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 14:25 |
| S30<br>4 | 22   | wireless same (hearing adj2 (aid device apparatus)) and (control\$4 with transmitter) and ((power frequency) near4 select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/13 15:06 |
| S30<br>5 | 41   | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (transmitter) same (signal near2 generator) same (control near2 signal)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 13:39 |
| S30<br>6 | 1109 | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 15:54 |
| S30<br>7 | 795  | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency) and transmitter   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 13:43 |
| S30<br>8 | 670  | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency) and transmitter and (microphone ((audio CD MP3) near2 player) (internet ner2 connect\$3))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 13:46 |
| S30<br>9 | 103  | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency) same transmitter same (microphone ((audio CD MP3) near2 player) (internet ner2 connect\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 13:48 |

## EAST Search History

|          |     |  |   |    |     |                  |
|----------|-----|--|---|----|-----|------------------|
| S31<br>1 | 264 | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effectiv near2 radiat\$3 near2 power)) with frequency) same (microphone ((audio CD MP3) near2 player) (internet ner2 connect\$3))                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 13:48 |
| S31<br>2 | 36  | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effectiv near2 radiat\$3 near2 power)) with frequency) same (microphone ((audio CD MP3) near2 player) (internet near2 connect\$3))                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 13:54 |
| S31<br>3 | 37  | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP (transmission near2 power) (effectiv near2 radiat\$3 near2 power)) with frequency) and (microphone ((audio CD MP3) near2 player) (internet near2 connect\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 14:53 |
| S31<br>4 | 278 | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP (transmission near2 power) (effectiv near2 radiat\$3 near2 power)) with frequency)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 14:54 |
| S31<br>5 | 147 | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) same (microphone ((audio CD MP3) near2 player) (internet near2 connection))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 15:20 |
| S31<br>6 | 53  | "455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) same (microphone ((audio CD MP3) near2 player) (internet near2 connection)) and (wireless near2 transmitter)          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 15:34 |



## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S31<br>7 | 239 | "455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and (microphone ((audio CD MP3) near2 player) (internet near2 connection)) and (wireless near2 transmitter)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 15:44 |
| S31<br>8 | 43  | "455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and ((microphone ((audio CD MP3) near2 player) (internet near2 connection)) same (decod\$3 demodulat\$3)) and (wireless near2 transmitter) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 15:47 |
| S31<br>9 | 122 | (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and ((microphone ((audio CD MP3) near2 player) (internet near2 connection)) same (decod\$3 demodulat\$3)) and (wireless near2 transmitter)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 16:07 |
| S32<br>0 | 166 | "455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and ((microphone ((audio CD MP3) near2 player) (internet near2 connection)) and (decod\$3 demodulat\$3)) and (wireless near2 transmitter)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 15:53 |
| S32<br>1 | 724 | "455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and (wireless near2 transmitter)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 15:53 |
| S32<br>2 | 121 | 455/69,522,112,113,118,569.1,114.1,123,125,127.1.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and (wireless near2 transmitter)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 15:55 |
| S32<br>3 | 176 | "455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency near2 select\$3))) and (wireless near2 transmitter)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 16:06 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S32<br>4 | 177  | "455"/\$.ccls. and ((control\$4<br>choos\$3) with (ERP (transmission<br>near2 power) (effective near2<br>radiat\$3 near2 power)(frequency<br>near2 select\$3))) and (wireless<br>near2 transmitter) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/26 16:06 |
| S32<br>5 | 390  | (455/68).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/01 17:14 |
| S32<br>6 | 2363 | (455/522).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/01 17:15 |
| S32<br>7 | 96   | (455/63.3).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/01 17:15 |
| S32<br>8 | 279  | (455/71).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/01 17:15 |
| S32<br>9 | 6    | S325 and (frequency near2<br>selection)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/01 17:16 |
| S33<br>0 | 176  | S325 and (control near2 signal)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/01 17:17 |
| S33<br>1 | 104  | S325 and (control near2 signal)<br>same (frequency power)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/01 17:33 |
| S33<br>2 | 17   | S325 and (control near2 signal)<br>same (transmission near2 power)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/01 17:33 |
| S33<br>3 | 35   | (encoded near3 audio near2 signal)<br>with control\$4 with (frequency<br>(transmission near2 power))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:00 |
| S33<br>4 | 3    | (encoded near3 audio near2 signal)<br>near3 (frequency near2 select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:18 |

## EAST Search History

|          |     |  |   |    |     |                  |
|----------|-----|--|---|----|-----|------------------|
| S33<br>5 | 1   | ((encoded near3 audio near2 signal) near3 control\$4 near3 decoder) same (wireless antenna)      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:05 |
| S33<br>6 | 2   | ((encoded near3 audio near2 signal) near3 control\$4 near3 decoder) and (wireless antenna)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:07 |
| S33<br>7 | 99  | ((audio near2 signal) near3 (frequency near2 select\$3)) and (wireless antenna)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:15 |
| S33<br>8 | 10  | ((audio near2 signal) near4 control\$4 near3 (frequency near2 select\$3)) and (wireless antenna) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:15 |
| S33<br>9 | 16  | (encoded near3 audio near2 signal) with (frequency near2 select\$3)                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:19 |
| S34<br>0 | 0   | (encoded near3 audio near2 signal) with (transmission near2 power)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:20 |
| S34<br>1 | 25  | (audio near2 signal) with control\$4 with (transmission near2 power)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/03 19:20 |
| S34<br>2 | 2   | (wireless near3 adapt\$2) same (frequency near3 selection)                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 15:21 |
| S34<br>3 | 325 | (wireless near3 (adapt\$2 transmitter)) and (frequency near3 selection)                          | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 09:26 |
| S34<br>4 | 1   | (wireless near3 (adapt\$2 transmitter)) and ((frequency near3 selection) with country)           | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 09:26 |
| S34<br>5 | 1   | wireless and ((frequency near3 selection) with country)  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 09:27 |
| S34<br>6 | 5   | ((frequency near3 selection) with country)   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 09:29 |
| S34<br>7 | 23  | ((frequency with selection) with country)  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 09:31 |

## EAST Search History

|          |      |  |                                 |    |     |                  |
|----------|------|--|---------------------------------|----|-----|------------------|
| S34<br>8 | 47   | (ERP (transmission near2 power))<br>with country   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 09:32 |
| S34<br>9 | 1717 | (ERP (transmission near2 power))<br>near3 select\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 09:33 |
| S35<br>0 | 429  | (ERP (transmission near2 power))<br>near3 select\$3 and (wireless)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 11:15 |
| S35<br>1 | 0    | ("6094563").URPN.  | USPAT                           | OR | OFF | 2006/08/04 09:54 |
| S35<br>2 | 0    | ("6094563").URPN.  | USPAT                           | OR | OFF | 2006/08/04 09:54 |
| S35<br>3 | 0    | ("6094563").URPN.  | USPAT                           | OR | OFF | 2006/08/04 09:54 |
| S35<br>4 | 5    | ("4958359"   "5003619"  <br>"5168516"   "5487185"  <br>"5524287").PN.  | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2006/08/04 09:54 |
| S35<br>5 | 0    | ("6094563").URPN.  | USPAT                           | OR | OFF | 2006/08/04 09:56 |
| S35<br>6 | 2    | ("6285886"   "6377813").PN.  | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2006/08/04 10:08 |
| S35<br>7 | 2    | (ERP (transmission near2 power))<br>near3 select\$3 and (wireless) and<br>(micropone ((CD audio MP3) near2<br>player)) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 11:21 |
| S35<br>8 | 2    | (ERP (transmission near2 power))<br>near3 select\$3 and (micropone<br>((CD audio MP3) near2 player))                   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 11:21 |
| S35<br>9 | 963  | (frequency near3 select\$3) and<br>(micropone ((CD audio MP3) near2<br>player))  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 11:24 |
| S36<br>0 | 58   | (frequency near3 select\$3) same<br>(micropone ((CD audio MP3) near2<br>player))                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 11:22 |
| S36<br>1 | 483  | (frequency near3 select\$3) and<br>(micropone ((CD audio MP3) near2<br>player)) and (wireless antenna)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 11:24 |
| S36<br>2 | 170  | ((frequency near3 select\$3) same<br>(wireless antenna)) and (micropone<br>((CD audio MP3) near2 player))              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/08/04 11:25 |
| S36<br>3 | 1    | ("5319716").PN.  | USPAT                           | OR | OFF | 2006/08/04 15:16 |
| S36<br>4 | 0    | S363 and jack  | USPAT                           | OR | OFF | 2006/08/04 15:16 |

## EAST Search History

|          |      |  |   |    |     |                  |
|----------|------|--|---|----|-----|------------------|
| S36<br>5 | 5    | (wireless near3 adapt\$2) same<br>(frequency with selection)                               | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 15:23 |
| S36<br>6 | 35   | (wireless near3 adapt\$2) same<br>(frequency with select\$3)                               | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 15:21 |
| S36<br>7 | 17   | (wireless with adapt\$2) same<br>(frequency with selection)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/04 15:23 |
| S36<br>8 | 500  | shimabara  | USPAT;<br>EPO; JPO                        | OR | OFF | 2006/08/04 19:22 |
| S36<br>9 | 2    | ((("4052673") or ("5732334"))).PN.   | USPAT                                     | OR | OFF | 2006/08/04 19:33 |
| S37<br>0 | 2    | ((("5818328") or ("20010034214"))).<br>PN.   | US-PGPUB;<br>USPAT                        | OR | OFF | 2006/08/04 19:34 |
| S37<br>1 | 3134 | (455/69,522).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/04 19:35 |
| S37<br>2 | 323  | S371 and (decod\$3 demodulat\$3<br>process\$3) same ((frequency<br>power) near3 select\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/08/04 19:36 |
| S37<br>3 | 10   | ("4972439").URPN.  | USPAT                                     | OR | OFF | 2006/08/04 19:38 |
| S37<br>4 | 6    | takashima.in. and headphone and<br>playback and memory                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/05 17:06 |
| S37<br>5 | 1021 | ((compact near2 disc) CD) same<br>(frequency) same "100"                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/05 17:07 |
| S37<br>6 | 182  | ((compact near2 disc) CD) with<br>(frequency) with "100"                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/05 17:08 |
| S37<br>7 | 15   | ((compact near2 disc) CD) with<br>(frequency) with ("100" near2 Hz)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/05 17:29 |
| S37<br>8 | 1    | ("6778814").PN.  | USPAT                                     | OR | OFF | 2007/03/01 11:32 |
| S37<br>9 | 36   | (wireless with microphone) same<br>((frequency power) near3 select\$3)                     | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/05 17:56 |
| S38<br>0 | 6    | tsutsui.in. and wireless same<br>microphone  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2006/08/05 17:56 |

## EAST Search History

|          |     |  |  |    |     |                  |
|----------|-----|--|--|----|-----|------------------|
| S38<br>1 | 0   | ("(wirelessnear2transmitter)and(en<br>cod\$3withaudiowithsignal)withdeco<br>der").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 11:34 |
| S38<br>2 | 25  | (wireless near2 transmitter) and<br>(encod\$3 with audio with signal)<br>with decoder  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 11:36 |
| S38<br>3 | 23  | (wireless near2 transmitter) and<br>((encod\$3 with audio with signal)<br>same decoder) and ((frequency<br>power) near4 select\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 11:47 |
| S38<br>4 | 3   | (wireless near2 transmitter) same<br>decoder same (encod\$3 near2<br>audio)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 11:55 |
| S38<br>5 | 85  | (wireless near2 transmitter) and<br>(decoder same (encod\$3 near2<br>audio))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 11:55 |
| S38<br>6 | 16  | (wireless near2 transmitter) and<br>(decoder same (encod\$3 near2<br>audio)) and ((frequency power)<br>near3 select\$3)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 11:56 |
| S38<br>7 | 146 | (wireless near2 transmitter) same<br>((frequency power) near3 select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:23 |
| S38<br>8 | 0   | (wireless same transmitter) same<br>(dyanmic near3 (frequency power)<br>near3 select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:24 |
| S38<br>9 | 0   | (wireless same transmitter) and<br>(dyanmic near3 (frequency power)<br>near3 select\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:26 |
| S39<br>0 | 9   | (wireless same transmitter) same<br>(dynamic near3 (frequency power)<br>near3 select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:24 |

## EAST Search History

|          |    |   |  |    |     |                  |
|----------|----|---|--|----|-----|------------------|
| S39<br>1 | 53 | (wireless same transmitter) and<br>(dynamic near3 (frequency power)<br>near3 select\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:27 |
| S39<br>2 | 0  | ("EP-1540982-\$.did.").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:28 |
| S39<br>3 | 0  | ("EP-1540982-\$.did.").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:39 |
| S39<br>4 | 0  | ("EP-540982-\$.did.").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:28 |
| S39<br>5 | 0  | EP-01540982-\$.did.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:39 |
| S39<br>6 | 0  | EP-1540982-\$.did.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:40 |
| S39<br>7 | 0  | ("20020227201").PN.   | US-PGPUB;<br>USPAT                                 | OR | OFF | 2007/03/01 14:40 |
| S39<br>8 | 0  | ("200200227201").PN.  | US-PGPUB;<br>USPAT                                 | OR | OFF | 2007/03/01 14:41 |
| S39<br>9 | 2  | ngo.in. and dynamic same<br>frequency same selection                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:43 |
| S40<br>0 | 0  | wireless same ((control near2<br>signal) with dynamic with frequency<br>with selection) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:44 |
| S40<br>1 | 7  | ((control near2 signal) with<br>dynamic with frequency with<br>selection)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:44 |

## EAST Search History

|          |    |  |  |    |     |                  |
|----------|----|--|--|----|-----|------------------|
| S40<br>2 | 1  | (control near2 signal) same<br>(dynamic near2 frequency near2<br>selection)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:45 |
| S40<br>3 | 85 | (control\$4) same (dynamic near2<br>frequency near2 selection)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:45 |
| S40<br>4 | 70 | (control\$4) with (dynamic near2<br>frequency near2 selection)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:50 |
| S40<br>5 | 0  | (encod\$3 near3 audio) same<br>(dynamic near2 frequency near2<br>selection)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:50 |
| S40<br>6 | 0  | (encod\$3 same audio) same<br>(dynamic near2 frequency near2<br>selection)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:51 |
| S40<br>7 | 40 | (encod\$3 same audio) same<br>(frequency near2 selection)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 14:54 |
| S40<br>8 | 17 | (encod\$3 same audio) same<br>(frequency near2 selection) and<br>(antenna wireless)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 15:41 |
| S40<br>9 | 23 | (control near2 signal) with<br>(generat\$3 produced) with (based<br>response) with (encod\$3 near2<br>audio)                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 15:44 |
| S41<br>0 | 19 | (decoder) with (generat\$3<br>produced) with (signal) with (based<br>response) with (encod\$3 near2<br>audio)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/01 16:24 |
| S41<br>1 | 8  | (decoder) with (generat\$3<br>produced) with (signal) with (based<br>response) with (encod\$3 near2<br>audio) same frequency | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:23 |



## EAST Search History

|          |    |  |  |    |     |                  |
|----------|----|--|--|----|-----|------------------|
| S41<br>2 | 1  | ("6660824").PN.  | USPAT  | OR | OFF | 2007/03/02 11:00 |
| S41<br>3 | 1  | ("6660824").PN.  | USPAT  | OR | OFF | 2007/03/02 11:00 |
| S41<br>4 | 2  | ((("5878328") or ("20010034214")).PN.  | US-PGPUB;<br>USPAT                                 | OR | OFF | 2007/03/04 14:50 |
| S41<br>5 | 58 | (generat\$3 produced) with (signal) with (based response) with (encod\$3 near2 audio) same (power frequency)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:24 |
| S41<br>6 | 0  | (generat\$3 produced) with (signal) with (based response) with (encod\$3 near2 audio) with (cotnrol\$4) with (power frequency) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:24 |
| S41<br>7 | 0  | (signal) with (based response) with (encod\$3 near2 audio) with (cotnrol\$4) with (power frequency)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:24 |
| S41<br>8 | 3  | (generat\$3 produced) with (signal) with (based response) with (encod\$3 near2 audio) with (control\$4) with (power frequency) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:26 |
| S41<br>9 | 0  | antenna same ((based response) with (encod\$3 near2 audio) with (control\$4) with (power frequency))                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:26 |
| S42<br>0 | 16 | antenna same ((encod\$3 near2 audio) with (control\$4) with (power frequency))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:28 |
| S42<br>1 | 24 | antenna and (decod\$3 with (encod\$3 near2 audio) with (control\$4) with (power frequency))                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:30 |
| S42<br>2 | 3  | antenna and (decod\$3 with (encod\$3 near2 audio) with ((frequency power) near3 select\$3))                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:31 |

## EAST Search History

|          |      |   |  |    |     |                  |
|----------|------|---|--|----|-----|------------------|
| S42<br>3 | 0    | (381/79,311,124,312,320).ccls. and decoder with (encod\$3 near2 audio) with ((frequency power) near2 select\$3)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:34 |
| S42<br>4 | 1    | (381/79,311,124,312,320).ccls. and (encod\$3 near2 audio) with ((frequency power) near2 select\$3)                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:34 |
| S42<br>5 | 1    | (381/79,311,124,312,320,92,122). ccls. and (encod\$3 near2 audio) with ((frequency power) near2 select\$3)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:34 |
| S42<br>6 | 1    | 455/69,522,112,113,118,569.1,114. 1,123,125,127.1.ccls. and (encod\$3 near2 audio) with ((frequency power) near2 select\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 16:24 |
| S42<br>7 | 0    | 455/69.ccls. and (control\$4 with (frequency power) with (encod\$3 near3 audio))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:38 |
| S42<br>8 | 4    | 455/69.ccls. and (frequency power) with (encod\$3 near3 audio)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 15:39 |
| S42<br>9 | 3478 | (455/69,522).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO          | OR | OFF | 2007/03/04 15:42 |
| S43<br>0 | 14   | S429 and (encod\$4 near3 audio)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 16:21 |
| S43<br>1 | 4    | S429 and (CD MP3) with (control\$4 with (frequency power))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 16:22 |
| S43<br>2 | 7    | 455/69,522,112,113,118,569.1,114. 1,123,125,127.1.ccls. and (CD MP3) with (control\$4 with (frequency power))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/03/04 16:24 |

## EAST Search History

|          |       |   |  |    |     |                  |
|----------|-------|---|--|----|-----|------------------|
| S43<br>3 | 3913  | (455/69,522).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO          | OR | OFF | 2007/11/19 19:28 |
| S43<br>4 | 87912 | S433 and antenna and (control\$4<br>modify\$3 adjust\$3) near3<br>(frequency adj2 select\$3)(power<br>adj2 (magnitude level))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/20 10:43 |
| S43<br>5 | 800   | S433 and antenna and (control\$4<br>modify\$3 adjust\$3) near3<br>((frequency adj2 select\$3)(power<br>adj2 (magnitude level))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/19 19:32 |
| S43<br>6 | 928   | S433 and (control\$4 modify\$3<br>adjust\$3) adj3 ((frequency adj2<br>select\$3)(power adj2 (magnitude<br>level)))              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/19 19:38 |
| S43<br>7 | 0     | S433 and ((control\$4 modify\$3<br>adjust\$3) adj3 power adj2<br>(magnitude level)) same (encod\$3<br>adj3 audio)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/19 19:39 |
| S43<br>8 | 4     | S433 and ((control\$4 modify\$3<br>adjust\$3) adj3 power adj2<br>(magnitude level)) same (audio)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/20 09:59 |
| S43<br>9 | 0     | S433 and ((control\$4 modify\$3<br>adjust\$3) adj3 frequency adj2<br>select\$3) same (audio)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/19 19:40 |
| S44<br>0 | 8     | S433 and ((control\$4 modify\$3<br>adjust\$3) adj3 frequency adj2<br>select\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | OFF | 2007/11/19 19:40 |